

0590
0508

#7



OIPE

RAW SEQUENCE LISTING

DATE: 05/08/2002

PATENT APPLICATION: US/09/995,938A

TIME: 13:23:09

Input Set : A:\salk46sq.txt

Output Set: N:\CRF3\05082002\I995938A.raw

ENTERED

```

4 <110> APPLICANT: JOANNE CHORY
5     ZHIYONG WANG
7 <120> TITLE OF INVENTION: GENES INVOLVED IN BRASSINOSTEROID
8     HORMONE ACTION IN PLANTS
10 <130> FILE REFERENCE: SALKINS.046A
12 <140> CURRENT APPLICATION NUMBER: 09/995,938A
13 <141> CURRENT FILING DATE: 2001-11-27
15 <160> NUMBER OF SEQ ID NOS: 14
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 2687
21 <212> TYPE: DNA
22 <213> ORGANISM: ARABIDOPSIS THALIANA
24 <400> SEQUENCE: 1
25 acttttagttt tgcctaattc atcgaaccct ctgattcatt ccaaagtgtt cccaactcgc 60
26 gttgatgggt cgggttcctc tgccttttaag acattagtta catgctcctg cacttttctac 120
27 aaaataaacg tcataatcca aaaatattac atgatcatac atcatatatg ccgccgaacc 180
28 ttgttatggg acaaactcgt aaaccctttt ttctttttat gttcaatgaa ctatacaagt 240
29 tttggttatg aatacataaa taatgatgga cccagcaatt aatccaaaat ttggatatta 300
30 gatactaaag cttaaaatca acatgtaacc aaactaaata ctttatagaa catagtaaatt 360
31 ggtattcacc aatctttata tcatgtgtaa ggtacgaaga aggtaaaaaa aagagagagc 420
32 cagtgtacat acaactaatc aggacaaaag tagtcaaaat tgtttctaaa gtgagatttg 480
33 tatgcaagaa aaaagtgata atttttaatt gaatatatca ttatgatgtt aatcacacgg 540
34 cttcactgta taaaataaaa ttttaaaaac caatcaaatg gtgtgttttt cggtcacaca 600
35 agtaaggagc ccacactgaa gaaacgggtc cactgtgtct cctcctttct tttctctgta 660
36 ttatttggtc attactcatt ttacatactc acagaaaaaa aaaaagatta gaacataaac 720
37 acacgttact aagcgtagtt atcctctgca ccttaacata cacctcttat attcacctca 780
38 cgtaatctca ccttccaaa accatgtatt tacacgtgga cgatcgatac acaagaacaa 840
39 tgattcttaa tatgaactca atgtacttga acacacacac gacccaattt ttacattaga 900
40 tgaaaaaaat attattattt gttggagaag aaagagagat tcttcttctt cgattccagc 960
41 gaaggaaaag cgtattcctc gtgagcacta acttctcact cctctcttct tcttcttcat 1020
42 cagtctacgt tcacacaatc tttcaccacac ctattcaaag ctctctccgg aagtttcgag 1080
43 gggttggttg ttggttttcc cgatgacttc ggatggagct acgtcgacat cagcagctgc 1140
44 agctgcggcg gcggcgagcag cggcgaggag gaagccgtcg tggagagaaa gggagaataa 1200
45 tcggaggaga gaaagacgga gaagagctgt agctgcgaag atatacactg ggcttagagc 1260
46 tcaaggtgat tataatttgc ctaaacattg tgataataat gaagtcctta aagctctttg 1320
47 tgttgaagct ggttgggttg ttgaagaaga tgggtactact tatcgcaagg tgaagacttt 1380
48 ctccattttt tccagatctg agcttgtttt attgatgttt ttgatgtttg aatctgaatt 1440
49 cgttgatttc aattgtggtt aaatgggttt gaatctgaga atttgagggt tttctcaaa 1500
50 tgaatttgaa tcatacagaa ctatggatgg atctgatttc tcaaagtga tttatgggtt 1560
51 ttctttctaa ttttagagtt attattggtt tgctaaagtc ttaatctttt atgtatgata 1620
52 cttggtccaa agtcattgca ttgtgtttct ttgtcttacc tgtgattgat tgatgtttga 1680
53 ttggttattg ttttgccttt gttggagtat cagggatgca agcctttacc tggtgagata 1740

```

RAW SEQUENCE LISTING

DATE: 05/08/2002

PATENT APPLICATION: US/09/995,938A

TIME: 13:23:09

Input Set : A:\salk46sq.txt

Output Set: N:\CRF3\05082002\I995938A.raw

```

54 gctgggactt catctcgagt aactccatat tcatcacaga accagagccc tctttcatca 1800
55 gccttttcaaa gtcccatccc atcttaccaa gttagcccggt cttcttcato attcccaggt 1860
56 ccttctcgcg gtgaacccaa taacaacatg tcctctacat tcttcccttt cctcagaaat 1920
57 ggtggcattc cttcttctct tccttccctc agaattctcaa acagttgtcc agttacccca 1980
58 cgggtctcat cgccgacttc taagaacccg aaaccggtgc ctaactggga atctatcgct 2040
59 aagcaatcca tggccattgc taaacaatca atggcgctctt ttaattatcc tttctatgcy 2100
60 gtttctgcac ctgctagtcg gacacatcgc caccagtttc ataccccggc tactatacct 2160
61 gaatgtgatg agtctgactc ttccactggt gattctgggc attggataag ctttcagaag 2220
62 tttgcacaac aacagccatt ctctgcctct atgggtgcaa cctctcctac cttcaatctt 2280
63 gtgaaacctg cgccctcgca gatgtctcca aatactgctg ccttccaaga gattgggtcaa 2340
64 agctctgagt ttaaatttga gaatagccaa gttaaaccct gggaaggaga gaggatacat 2400
65 gatgtgggta tggaggatct tgagcttaca cttggaaatg ggaaggctcg tggttgacat 2460
66 aaacaactag gcaaacccaa atggcatgtc attggaatat gagaaactaa tcctcttgag 2520
67 tattttcttc ttctccagg tatttggatc tttatggaat ctcatatgtt cttcacttat 2580
68 tatccaaata tgcgtcccaa agccttctcc atggaagcat tggagtgtta gagtgggtat 2640
69 tcaattcatg aatttggttt caaaagcatt atttgtagat aaaaaaa 2687
71 <210> SEQ ID NO: 2
72 <211> LENGTH: 2687
73 <212> TYPE: DNA
74 <213> ORGANISM: ARABIDOPSIS THALIANA
76 <400> SEQUENCE: 2
77 acttttagttt tgcctaattc atcgaaccct ctgattcatt ccaaagtgtt cccaactcgc 60
78 gttgatgggt cgggttcctc tgcctttaag acattagtta catgctcctg cactttctac 120
79 aaaataaacg tcataatcca aaaatattac atgatcatac atcatatatg ccgccgaacc 180
80 ttgttatggg acaaacctcg aaaccctttt ttctttttat gttcaatgaa ctatacaagt 240
81 tttggttatg aatacataaa taatgatgga ccagcaatt aatccaaaat ttggatatta 300
82 gatactaaag cttaaaatca acatgtaacc aaactaaata ctttatagaa catagtaaat 360
83 ggtattcacc aatctttata tcatattgtaa ggtacgaaga aggtaaaaaa aagagagagc 420
84 cagtgtacat acaactaatc aggacaaaag tagtcaaaat tgtttctaaa gtgagatttg 480
85 tatgcaagaa aaaagtgata atttttaatt gaatatatca ttatgatgtt aatcacacgg 540
86 cttcactgta taaaataaaa ttttaaaaac caatcaaag gtgtgttttt cggtcacaca 600
87 agtaaggagc ccacactgaa gaaacggtcc cactgtgtct cctcctttct tttctctgta 660
88 ttatttggtc attactcatt ttacatactc acagaaaaaa aaaaagatta gaacataaac 720
89 acacgttact aagcgtagtt atcctctgca ccttaacata cacctcttat attcacctca 780
90 cgtaatctca ccttccaaa accatgtatt tacacgtgga cgatcgatac acaagaacaa 840
91 tgattcttaa tatgaactca atgtacttga acacacacac gaccaattt ttacattaga 900
92 tgaaaaaaat attattattt gttggagaag aaagagagat tcttcttctt cgattccagc 960
93 gaaggaaaag cgtattcctc gtgagcacta acttctcact cctctcttct tcttcttcat 1020
94 cagtctacgt tcacacaatc ttccaccac ctattcaaag ctctctccgg aagtttcgag 1080
95 gggttggttg ttggttttcc cgatgacttc ggatggagct acgtcgacat cagcagctgc 1140
96 agctgcggcg gcgcagcag cggcgaggag gaagccgctg tggagagaaa gggagaataa 1200
97 tcggaggaga gaaagacgga gaagagctgt agctgcgaag atatacactg ggcttagagc 1260
98 tcaaggtgat tataatttgc ctaaacattg tgataataat gaagtcctta aagctctttg 1320
99 tgttgaagct ggttgggttg ttgaagaaga tggactact tatcgcaagg tgaagacttt 1380
100 ctccattttt tccagatctg agcttgtttt attgatgttt ttgatgtttg aatctgaatt 1440
101 cggtgatctc aattgtggtt aaatgggttt gaatctgaga atttgagggg tttctcaaag 1500
102 tgaatttgaa tcatcagaaa ctatggatgg atctgatttc tcaaagtga tttatgggtt 1560
103 ttctttctaa ttttagagtt attattggtg tgctaaagtc ttaacttttt atgtatgata 1620
104 cttggtccaa agtcattgca ttgtgtttct tttgcttacc tgtgattgat tgatgtttga 1680

```

RAW SEQUENCE LISTING

DATE: 05/08/2002

PATENT APPLICATION: US/09/995,938A

TIME: 13:23:09

Input Set : A:\salk46sq.txt

Output Set: N:\CRF3\05082002\I995938A.raw

```

105 ttggttattg ttttgccttt gttggagtat cagggatgca agcctttacc tggtagagata 1740
106 gctgggactt catctcgagt aactccatat tcatcacaga accagagccc tctttcatca 1800
107 gcctttcaaa gtcccatccc atcttaccaa gttagcccggt cttcttcata attcccgagt 1860
108 ccttctcgcg gtgaacaaaa taacaacatg tctctacat tcttcccttt cctcagaaat 1920
109 ggtggcattc cttcttctct tcttccctc agaattctca acagttgtcc agttacccca 1980
110 ccggtctcat cgccgacttc taagaacccg aaaccggtgc ctaactggga atctatcgct 2040
111 aagcaatcca tggccattgc taaacaatca atggcgctct ttaattatcc tttctatgcy 2100
112 gtttctgcac ctgctagtcc gacacatcgc caccagtttc ataccctggc tactatacct 2160
113 gaatgtgatg agtctgactc ttccactgtt gattctgggtc attggataag ctttcagaag 2220
114 tttgcacaac aacagccatt ctctgcctct atgggtgcaa cctctcctac cttcaatctt 2280
115 gtgaaacctg cgccctcagca gatgtctcca aatactgctg ccttccaaga gattggtcaa 2340
116 agctctgagt ttaaatattg gaatagccaa gttaaaccct gggaaggaga gaggatacat 2400
117 gatgtgggta tggaggatct tgagcttaca cttggaaatg ggaaggctcg tggttgacat 2460
118 aaacaactag gcaaacccaa atggcatgtc attggaatat gagaaactaa tcctcttgag 2520
119 tattttcttc ttctgcccag tatttggatc tttatggaat ctcatatgtt cttcacttat 2580
120 tatccaaata tgctgcccac agccttctcc atggaagcat tggagtgtta gattggttat 2640
121 tcaattcatg aatttggttt caaaagcatt atttgtagat aaaaaaa 2687
123 <210> SEQ ID NO: 3
124 <211> LENGTH: 3000
125 <212> TYPE: DNA
126 <213> ORGANISM: ARABIDOPSIS THALIANA
128 <400> SEQUENCE: 3
129 tgaatattct cacatttcca ttttcgactc tcttttagtaa attttgaagt agtagaatga 60
130 ttagaatgtt tttgttttat caatcacaca gttttgtgaa atcacgattt ccatccacta 120
131 ttcaagaaaa acatcaagtg gaagaaataa taacacaaaa ccatcgcaac aaaatgcata 180
132 tcacgagtat agaatgaaca aactacactg tcaaatactt aatttaggac ttaaacttcg 240
133 ctttcagaca acttgggttg gaaacttgac catccgtcat gttgatatac acaatccatc 300
134 tcaaatgtag tagtgaatca ctatatcagc atgtgttatc aaacgcaagt tgtcactaag 360
135 atcggagctt ctagttcaaa atgttgataa gtattacgaa agtacaattg aatataccaa 420
136 ttatacatcc aaacacgtcc atgcttctcc actcgagtcc tctttgaaa tctatataat 480
137 ccgtcggttt ggtattttac tagttgtacg tagtgtctcc cctcatatgt attgagtctt 540
138 tatagtttgt tgcctcgtat acgatagaaa gtaaaaggta aaaaaccata ctatttcata 600
139 aagggtttat ttagttaact ttaaatctaa accatgtatc actccatttt acgtatatct 660
140 gttttcacia ataattctat aaataatttt gtaatgtgat aaaattaaag aataaacaca 720
141 tgatacataa acagtcagga caaaagtaag cactcatttt cttctattca tactatagtg 780
142 aaacactatt ttatttttat ccatatacta tagtgacaaa ttaattctat cattaaatgt 840
143 tatgaggctc aaaacaattt gttttcttat ttaacatggc cgatcccctc ataaaccaat 900
144 cagatgggtg gttttccggt catactcgtg taggacccac ttcattacaa tggccccaca 960
145 tgtctctcta tctttttctc ctctttataa aatcagctcc ttttcttaca cagatttaga 1020
146 gaaacacaa ataaaacgta cttcttcttc aaaacgcgaa accacactgt aagttacgta 1080
147 caccaccacc tatcctcacc attcatcatc gacacgtggc tggtttaact caaatcaacg 1140
148 gtgaattctt tttgcttttt tattttaaat aatgaatgaa aagattcttc tataattcca 1200
149 gcgaagaaga aagaaaaaaa aaagcgtatt cctcgtgagc actaacttct cactcattct 1260
150 tcttcttcag ctgaatccaa ataccatttt ccatttttaa ccgtggttg attgttttga 1320
151 gatttgaagg aagaagatga cgtctgacgg agcaacgtcg acgtcagctg cagctgcagc 1380
152 agcagcgatg gcgacgagga ggaaaccgtc gtggagagag agggagaaca atcgagaaag 1440
153 agagcgcgag agaagagctg ttgcggcgaa gatttatact ggtcttagag ctcaaggtaa 1500
154 ctacaattct ccaaaacatt gtgacaacaa tgaggttctt aaggctcttt gttctgaagc 1560
155 tggttgggtt gttgaagaag acggaactac ttatcgcaag gtcagtatca aacgcatttt 1620

```

RAW SEQUENCE LISTING

DATE: 05/08/2002

PATENT APPLICATION: US/09/995,938A

TIME: 13:23:09

Input Set : A:\salk46sq.txt

Output Set: N:\CRF3\05082002\I995938A.raw

```

156 tacttagatc tgatgttata tgatgattta gctgttgaat ctgaagattt ggatttgaaa 1680
157 ttggtcaaat tgggattttc ttggctatga attcgagggt tttagctgag gaagctcagt 1740
158 tttattctaa aattggatcg agattccttg cggagaaagt gacctttagg gttcttctta 1800
159 ctaatttgag aaccgaatta gctttacttt cacttgggta ctatatattag atctctcctt 1860
160 tagcttttga ttgattgtga cattgtgatg tttttgggat tgttctatga gcaacagggg 1920
161 cacaagcctc tacctggtga catggctgga tcatcttctc gagcaactcc ttactcttcc 1980
162 cataaccaa gtctcttttc ttccactttt gatagcccca tcttatctta ccaagtcagt 2040
163 ccttctctct ctctattccc gagtcttctc cgagtgggtg atccacacaa tatctccaca 2100
164 atcttccctt tctcaggaa tgggtggtatt ccttcacgc ttcctccact tagaatctca 2160
165 aacagtgtc ctgtcactcc accagtgtca tccccaaact ctagaaaccc caaaccattg 2220
166 cctacttggg aatcttttac caaacaatcc atgtccatgg ctgctaaaca gtcaatgact 2280
167 tctttgaact acccgtttta tgcggtgtct gcacctgcca gtcctactca tcatcgccag 2340
168 ttccatgtc cggtactat acctgaatgt gatgagtctg actcttccac tgttgattct 2400
169 ggtcattgga taagctttca aaagtttgca caacaacagc cattctctgc ctctatgggt 2460
170 ccaacctcgc ctaccttcaa tctcgtgaaa cctgcaccac agcaattgtc tccaaacaga 2520
171 gcagcaatcc aagagattgg tcaaagctcc gagtttaagt ttgagaacag ccaagttaag 2580
172 ccatgggaag gggagaggat ccatgatgtg gctatggagg atctagagct cacgcttggg 2640
173 aatggtaaa ctcatagtgt agatgaagta tacatgaacc tgttatgtca tgtcgggaag 2700
174 aaggattgga gaatgagaat tagtgtgttg ttcattcagt tcatggtttt ggttcttgtt 2760
175 ctagaatcga tattcattgt accagtgagt ttgtttcaca acgcattatt tgtagataga 2820
176 atgtttaaga tgtatgtttc tattatcatt ccttttaggt cttgaaaaca ttacaaatat 2880
177 attacatgat taagtggctt gaaatgtaaa ttatatatcg gatgatgaaa cagagaaaaa 2940
178 caagtgaggc taaaacaaag acttgggatg taataacaag atcagagagg ttaagaaaga 3000
181 <210> SEQ ID NO: 4
182 <211> LENGTH: 1456
183 <212> TYPE: DNA
184 <213> ORGANISM: ARABIDOPSIS THALIANA
186 <400> SEQUENCE: 4
187 gaccaatttt ttacattaga tgaaaaaaat attattattt gttggagaag aaagagagat 60
188 tcttcttctt cgattccagc gaaggaaaag cgtattcctc gtgagcacta acttctcact 120
189 cttctcttct tcttcttcat cagtctacgt tcacacaatc tttcacccac ctattcaaag 180
190 ctctctccgg aagtttccag gggttgggtt ttggttttcc cgatgacttc ggatggagct 240
191 acgtcgacat cagcagctgc agctgcggcg gcggcagcag cggcgaggag gaagccgtcg 300
192 tggagagaaa gggagaataa tcggaggaga gaaagacgga gaagagctgt agctgcgaag 360
193 atatacactg ggcttagagc tcaagggtgat tataatttgc ctaaacattg tgataataat 420
194 gaagtcctta agctcttttg tgttgaagct ggttgggttg ttgaagaaga tggttactact 480
195 tatcgcaagg gatgcaagcc tttaacctgg gagatagctg ggacttctat tcgagtaact 540
196 ccatattcat cacagaacca gagccctctt tcatcagcct ttcaaagtcc catcccatct 600
197 taccaagtta gcccgcttct ttcattcttc ccgagtcctt ctgcggtga accaaataac 660
198 aacatgtcct ctacattctt ccctttcctc agaaatgggt gcattccttc ttctcttctt 720
199 tccctcagaa tctcaaacag ttgtccagtt accccaccgg tctcatcgcc gacttctaag 780
200 aacccgaaac cgttgccata ctgggaatct atcgctaagc aatccatggc cattgctaaa 840
201 caatcaatgg cgtcttttaa ttatcctttc tatgcggtt ctgcacctgc tagtccgaca 900
202 catcgccacc agtttcatac cccggctact atacctgaat gtgatgagtc tgactcttcc 960
203 actgttgatt ctggtcattg gataagcttt cagaagtttg cacaacaaca gccattctct 1020
204 gcctctatgg tgccaacctc tctaccttc aatcttgtga aacctgcgcc tcagcagatg 1080
205 tctccaaata ctctgcctt ccaagagatt ggtcaaagct ctgagtttaa atttgagaat 1140
206 agccaagtta aacctgggga aggagagagg atacatgatg tgggtatgga ggatcttgag 1200
207 cttaacactg gaaatgggaa ggctcgtggt tgacataaac aactaggcaa acccaaattg 1260

```

RAW SEQUENCE LISTING

DATE: 05/08/2002

PATENT APPLICATION: US/09/995,938A

TIME: 13:23:09

Input Set : A:\salk46sq.txt

Output Set: N:\CRF3\05082002\I995938A.raw

```

208 catgtcattg gaatatgaga aactaatcct cttgagtatt ttctttcttcg tccaggtatt 1320
209 tggatcttta tggaatctca tatgttcttc acttattatc caaatatgct gccc aaagcc 1380
210 ttctccatgg aagcattgga gtgtagagt ggttattcaa ttcatgaatt tggtttcaaa 1440
211 agcattatth gtagat 1456

```

213 <210> SEQ ID NO: 5

214 <211> LENGTH: 1456

215 <212> TYPE: DNA

216 <213> ORGANISM: ARABIDOPSIS THALIANA

218 <400> SEQUENCE: 5

```

219 gacccaatth ttacattaga tgaaaaaat attattatth gttggagaag aaagagagat 60
220 tcttcttctt cgattccagc gaaggaaaag cgtattcctc gtgagcacta acttctcact 120
221 cctctcttct tcttcttcat cagtctacgt tcacacaatc ttccaccac ctattcaaag 180
222 ctctctccgg aagtttcgag gggttgggtg ttggttttcc cgatgacttc ggatggagct 240
223 acgtcgacat cagcagctgc agctgcggcg gcggcagcag cggcgaggag gaagccgctc 300
224 tggagagaaa gggagaataa tcggaggaga gaaagacgga gaagagctgt agctgcgaag 360
225 atatacactg ggcttagagc tcaagggtgat tataatttgc ctaaacattg tgataataat 420
226 gaagtcctta aagctctttg tgttgaagct ggttgggttg ttgaagaaga tggactact 480
227 tategcaagg gatgcaagcc ttacctgggt gagatagctg ggacttcac tcgagtaact 540
228 ccatattcat cacagaacca gagccctctt tcacagcct ttcaaagtcc catcccatct 600
229 taccaagtta gcccgcttct ttcatcattc ccgagtcctt ctgcgggtga accaaataac 660
230 aacatgtcct ctacattctt ccttttctc agaaatgggt gcattccttc ttctcttctt 720
231 tccctcagaa tctcaaacag ttgtccagtt accccaccgg tctcatcgcc gacttctaag 780
232 aaccggaac cgtgcctaa ctgggaatct atcgctaagc aatccatggc cattgctaaa 840
233 caatcaatgg cgtcttttaa ttatccttct tatgcggttt ctgcacctgc tagtccgaca 900
234 catcgccacc agtttcatat cctggctact atacctgaat gtgatgagtc tgactcttcc 960
235 actgttgatt ctggtcattg gataagcttt cagaagtttg cacaacaaca gccattctct 1020
236 gcctctatgg tgccaacctc tctaccttc aatcttgtga aacctgcgcc tcagcagatg 1080
237 tctccaaata ctgctgcctt ccaagagatt ggtcaaagct ctgagtttaa atttgagaat 1140
238 agccaagtta aaccctggga aggagagagg atacatgat tgggtatgga ggatcttgag 1200
239 ctacacttg gaaatgggaa ggctcgfggt tgacataaac aactaggcaa acccaaattg 1260
240 catgtcattg gaatatgaga aactaatcct cttgagtatt ttcttcttcg tccaggtatt 1320
241 tggatcttta tggaatctca tatgttcttc acttattatc caaatatgct gccc aaagcc 1380
242 ttctccatgg aagcattgga gtgtagagt ggttattcaa ttcatgaatt tggtttcaaa 1440
243 agcattatth gtagat 1456

```

245 <210> SEQ ID NO: 6

246 <211> LENGTH: 336

247 <212> TYPE: PRT

248 <213> ORGANISM: ARABIDOPSIS THALIANA

250 <400> SEQUENCE: 6

```

251 Met Thr Ser Asp Gly Ala Thr Ser Thr Ser Ala Ala Ala Ala Ala Ala
252 1 5 10 15
253 Ala Ala Ala Ala Ala Arg Arg Lys Pro Ser Trp Arg Glu Arg Glu Asn
254 20 25 30
255 Asn Arg Arg Arg Glu Arg Arg Arg Ala Val Ala Ala Lys Ile Tyr
256 35 40 45
257 Thr Gly Leu Arg Ala Gln Gly Asp Tyr Asn Leu Pro Lys His Cys Asp
258 50 55 60
259 Asn Asn Glu Val Leu Lys Ala Leu Cys Val Glu Ala Gly Trp Val Val
260 65 70 75 80

```

VERIFICATION SUMMARY

DATE: 05/08/2002

PATENT APPLICATION: US/09/995,938A

TIME: 13:23:10

Input Set : A:\salk46sq.txt

Output Set: N:\CRF3\05082002\I995938A.raw

L:580 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1

L:581 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14